

Kiowa County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 12 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Kiowa County economy.¹

These 12 sectors have a total direct output of approximately **\$93.0 million** and support **421 jobs** in Kiowa County. Running the model for all 12 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Kiowa County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	421.4	19.59%	\$26,313,591	22.27%	\$93,002,849
Indirect Effect	70.9	3.29%	\$5,568,380	4.71%	\$11,579,268
Induced Effect	23.6	1.10%	\$1,178,085	1.00%	\$2,611,536
Total Effect	515.9	23.98%	\$33,060,056	27.98%	\$107,193,653

As shown in the above table, agriculture, food, and food processing sectors support **516 jobs**, or **23.98%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 12 agriculture, food, and food processing sectors is approximately **\$33.1 million**, or **27.98% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelptest.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **234 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Kiowa County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	234.2	\$28,870,589
Grain farming	104.6	\$40,778,091
Cotton farming	24.8	\$7,265,102
Wholesale trade	23.5	\$4,437,181
All other crop farming	15.6	\$1,302,685
Animal production, except cattle and poultry and eggs	12.0	\$1,587,600
Oilseed farming	9.2	\$10,284,945
Support activities for agriculture and forestry	8.2	\$104,827
Real estate	6.2	\$388,500
Greenhouse, nursery, and floriculture production	5.6	\$1,040,439

The grain farming sector directly contributes approximately **\$40.8 million** to the Kiowa County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Grain farming	104.6	\$40,778,091
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	234.2	\$28,870,589
Oilseed farming	9.2	\$10,284,945
Cotton farming	24.8	\$7,265,102
Wholesale trade	23.5	\$4,437,181
Animal production, except cattle and poultry and eggs	12.0	\$1,587,600
All other crop farming	15.6	\$1,302,685
Truck transportation	5.5	\$1,171,946
Maintenance and repair construction of nonresidential structures	5.1	\$1,051,306
Greenhouse, nursery, and floriculture production	5.6	\$1,040,439

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Kiowa County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	9.2	\$10,284,945.49
Grain farming	104.6	\$40,778,091.43
Greenhouse, nursery, and floriculture production	5.6	\$1,040,439.01
Cotton farming	24.8	\$7,265,102.39
All other crop farming	15.6	\$1,302,684.55
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	234.2	\$28,870,588.30
Poultry and egg production	0.8	\$761,600.61
Animal production, except cattle and poultry and eggs	12.0	\$1,587,599.52
Commercial hunting and trapping	1.0	\$18,905.16
Support activities for agriculture and forestry	8.2	\$104,827.10
Bread and bakery product, except frozen, manufacturing	3.3	\$318,994.05
Farm machinery and equipment manufacturing	2.1	\$669,071.26

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Kiowa County, the retail sector was omitted.